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Sequence Listing could not be accepted.

If you need help call the Patent Electronic Business Center at (866)
217-9197 (toll free).

Reviewer: Anne Corrigan

Timestamp: [year=2009; month=9; day=21; hr=11; min=11; sec=59; ms=20;]

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Reviewer Comments:

<150> 10/509,249

<151> 2004-09-28

Please remove these lines, since they are not prior application data.

<210> 30

<211> 39

<212> DNA

<213> artificial synthesized peptide sequence

<220>

<223> test fused

<400> 30

The above <213> response is invalid, per 1.823 of the Sequence Rules.
The only valid responses are: the Genus species of the organism,
"Artificial Sequence", or "Unknown". "Artificial Sequence" and
"Unknown" require explanation in the <220>-<223> section; please clearly
give the source of the genetic material. FYI: this is not a peptide
sequence. Same error in Sequence 31.

Please ensure that all explanations of "Artificial Sequence" give the
source of the genetic material.

Application No: 10509249 Version No: 6.0

Input Set:**Output Set:**

Started: 2009-09-03 15:42:15.339
Finished: 2009-09-03 15:42:22.674
Elapsed: 0 hr(s) 0 min(s) 7 sec(s) 335 ms
Total Warnings: 245
Total Errors: 0
No. of SeqIDs Defined: 245
Actual SeqID Count: 245

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W 213	Artificial or Unknown found in <213> in SEQ ID (3)
W 213	Artificial or Unknown found in <213> in SEQ ID (4)
W 213	Artificial or Unknown found in <213> in SEQ ID (5)
W 213	Artificial or Unknown found in <213> in SEQ ID (6)
W 213	Artificial or Unknown found in <213> in SEQ ID (7)
W 213	Artificial or Unknown found in <213> in SEQ ID (8)
W 213	Artificial or Unknown found in <213> in SEQ ID (9)
W 213	Artificial or Unknown found in <213> in SEQ ID (10)
W 213	Artificial or Unknown found in <213> in SEQ ID (11)
W 213	Artificial or Unknown found in <213> in SEQ ID (12)
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W 213	Artificial or Unknown found in <213> in SEQ ID (15)
W 213	Artificial or Unknown found in <213> in SEQ ID (16)
W 213	Artificial or Unknown found in <213> in SEQ ID (17)
W 213	Artificial or Unknown found in <213> in SEQ ID (18)
W 213	Artificial or Unknown found in <213> in SEQ ID (19)
W 213	Artificial or Unknown found in <213> in SEQ ID (20)

Input Set:

Output Set:

Started: 2009-09-03 15:42:15.339
Finished: 2009-09-03 15:42:22.674
Elapsed: 0 hr(s) 0 min(s) 7 sec(s) 335 ms
Total Warnings: 245
Total Errors: 0
No. of SeqIDs Defined: 245
Actual SeqID Count: 245

Error code	Error Description
	This error has occurred more than 20 times, will not be displayed
W 402	Undefined organism found in <213> in SEQ ID (30)
W 402	Undefined organism found in <213> in SEQ ID (31)

SEQUENCE LISTING

<110> Japan Science and Technology Agency
Kuroda, Shunichi
Tanizawa, Katsuyuki
Okajima, Toshihide
Kondo, Akihiko
Ueda, Nasakazu
Seno, Masahura

<120> THERAPEUTIC DRUG USING ANTIBODY-DISPLAYING HOLLOW PROTEIN
NANOPARTICLES AND HOLLOW PROTEIN NANOPARTICLES

<130> 12480-000067/US

<140> 10509249

<141> 2004-09-28

<150> 10/509,249

<151> 2004-09-28

<160> 245

<170> PatentIn version 3.4

<210> 1

<211> 27

<212> DNA

<213> artificial sequence

<220>

<223> Synthesized Oligonucleotide

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27

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<213> artificial sequence

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<213> artificial sequence

<220>

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<210> 20
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<220>
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<223> Synthesized Oligonucleotide

<400> 27

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<210> 28

<211> 10

<212> PRT

<213> artificial sequence

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<223> artificial synthesized peptide sequence

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<210> 29

<211> 116

<212> PRT

<213> artificial sequence

<220>

<223> artificial synthesized peptide sequence

<400> 29

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Leu His Leu Pro Asn Leu Asn Glu Glu Gln Arg Asn Ala Phe Ile Gln

20 25 30

Ser Leu Lys Asp Asp Pro Ser Gln Ser Ala Asn Leu Leu Ala Glu Ala

35 40 45

Lys Lys Leu Asn Asp Ala Gln Ala Pro Lys Val Asp Asn Lys Phe Asn

50 55 60

Lys Glu Gln Gln Asn Ala Phe Tyr Glu Ile Leu His Leu Pro Asn Leu

65 70 75 80

Asn Glu Glu Gln Arg Asn Ala Phe Ile Gln Ser Leu Lys Asp Asp Pro

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Ser Gln Ser Ala Asn Leu Leu Ala Glu Ala Lys Lys Leu Asn Asp Ala

100 105 110

Gln Ala Pro Lys
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<210> 30
<211> 39
<212> DNA
<213> artificial synthesized peptide sequence

<220>
<223> test fused

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<210> 31
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<212> DNA
<213> Artificial Sequence Fused Peptide

<220>
<223> 21-153 + ZZ (serotype y) sequence

<400> 31
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<210> 32
<211> 378
<212> PRT
<213> artificial sequence

<220>
<223> protein corresponding to 21-153 + ZZ (serotype y) sequence

<400> 32

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His Gln Leu Asp Gly Gly Arg Ala Gln His Asp Glu Ala Val Asp Asn
20 25 30

Lys Phe Asn Lys Glu Gln Gln Asn Ala Phe Tyr Glu Ile Leu His Leu
35 40 45

Pro Asn Leu Asn Glu Glu Gln Arg Asn Ala Phe Ile Gln Ser Leu Lys
50 55 60

Asp Asp Pro Ser Gln Ser Ala Asn Leu Leu Ala Glu Ala Lys Lys Leu

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Gln Arg Asn Ala Phe Ile Gln Ser Leu Lys Asp Asp Pro Ser Gln Ser						
	115		120		125	
Ala Asn Leu Leu Ala Glu Ala Lys Lys Leu Asn Asp Ala Gln Ala Pro						
	130		135		140	
Lys Ala Ala Ala Pro Ala Pro Asn Met Glu Asn Thr Thr Ser Gly Phe						
	145		150		155	160
Leu Gly Pro Leu Leu Val Leu Gln Ala Gly Phe Phe Leu Leu Thr Arg						
	165		170		175	
Ile Leu Thr Ile Pro Gln Ser Leu Asp Ser Trp Trp Thr Ser Leu Asn						
	180		185		190	
Phe Leu Gly Gly Ala Pro Thr Cys Pro Gly Gln Asn Ser Gln Ser Pro						
	195		200		205	
Thr Ser Asn His Ser Pro Thr Ser Cys Pro Pro Ile Cys Pro Gly Tyr						
	210		215		220	
Arg Trp Met Cys Leu Arg Arg Phe Ile Ile Phe Leu Phe Ile Leu Leu						
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Pro Val Cys Pro Leu Leu Pro Gly Thr Ser Thr Thr Ser Thr Gly Pro						
	260		265		270	
Cys Lys Thr Cys Thr Ile Pro Ala Gln Gly Thr Ser Met Phe Pro Ser						
	275		280		285	
Cys Cys Cys Thr Lys Pro Ser Asp Gly Asn Cys Thr Cys Ile Pro Ile						
	290		295		300	

Pro Ser Ser Trp Ala Phe Ala Arg Phe Leu Trp Glu Trp Ala Ser Val
 305 310 315 320

Arg Phe Ser Trp Leu Ser Leu Leu Val Pro Phe Val Gln Trp Phe Val
 325 330 335

Gly Leu Ser Pro Thr Val Trp Leu Ser Val Ile Trp Met Met Trp Tyr
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Trp Gly Pro Ser Leu Tyr Asn Ile Leu Ser Pro Phe Leu Pro Leu Leu
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Pro Ile Phe Phe Cys Leu Trp Val Tyr Ile
 370 375

<210> 33

<211> 1134

<212> DNA

<213> artificial sequence

<220>

<223> 21-153 (Q129R) + ZZ (serotype y) sequence

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gcgttctatg agatcttaca ttacctaac ttaaacgaag aacaacgaaa cgccttcac 180

caaagttaa aagatgaccc aagccaaagc gctaaccctt tagcagaagc taaaagcta 240

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tatgagatct tacatttacc taacttaaac gaagaacaac gaaacgcctt catccaaagt 360

ttaaaagatg acccaagcca aagcgctaac cttttagcag aagctaaaaa gctaaatgat 420

gctcaggcgc cgaaagcggc cgcccctgca ccgaacatgg agaacacaac atcaggattc 480

ctaggacccc tgctcgtgtt acaggcgggg tttttcttgt tgacaagaat cctcacaata 540

ccacagagtc tagactcgtg gtggacttct ctcaattttc tagggggagc acccactgt 600

cctggccaaa attcgcagtc cccaacctcc aatcactcac caacctcttg tctccaatt 660

tgtcctgget atcgtcggat gtgtctgcgg cgttttatca tttcctctt catcctgctg 720

ctatgcctca ttttcttgtt ggttcttctg gactaccaag gtatgttgcc cgtttgtcct 780

ctactttccag gaacatcaac caccagcacg gggccatgca agacctgcac gattcctgct 840
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tgtattccca tcccatcacc ctgggctttc gcaagattcc tatgggagtg ggcctcagtc 960
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<210> 34

<211> 378

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<213> artificial sequence

<220>

<223> Protein corresponding to 21-153 (Q129R) + ZZ (serotype y)
sequence

<400> 34

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His Gln Leu Asp Gly Gly Arg Ala Gln His Asp Glu Ala Val Asp Asn
20 25 30

Lys Phe Asn Lys Glu Gln Gln Asn Ala Phe Tyr Glu Ile Leu His Leu
35 40 45

Pro Asn Leu Asn Glu Glu Gln Arg Asn Ala Phe Ile Gln Ser Leu Lys
50 55 60

Asp Asp Pro Ser Gln Ser Ala Asn Leu Leu Ala Glu Ala Lys Lys Leu
65 70 75 80

Asn Asp Ala Gln Ala Pro Lys Val Asp Asn Lys Phe Asn Lys Glu Gln
85 90 95

Gln Asn Ala Phe Tyr Glu Ile Leu His Leu Pro Asn Leu Asn Glu Glu
100 105 110

Gln Arg Asn Ala Phe Ile Gln Ser Leu Lys Asp Asp Pro Ser Gln Ser
115 120 125

Ala Asn Leu Leu Ala Glu Ala Lys Lys Leu Asn Asp Ala Gln Ala Pro

130

135

140

Lys Ala Ala Ala Pro Ala Pro Asn Met Glu Asn Thr Thr Ser Gly Phe
 145 150 155 160

Leu Gly Pro Leu Leu Val Leu Gln Ala Gly Phe Phe Leu Leu Thr Arg
 165 170 175

Ile Leu Thr Ile Pro Gln Ser Leu Asp Ser Trp Trp Thr Ser Leu Asn
 180 185 190

Phe Leu Gly Gly Ala Pro Thr Cys Pro Gly Gln Asn Ser Gln Ser Pro
 195 200 205

Thr Ser Asn His Ser Pro Thr Ser Cys Pro Pro Ile Cys Pro Gly Tyr
 210 215 220

Arg Trp Met Cys Leu Arg Arg Phe Ile Ile Phe Leu Phe Ile Leu Leu
 225 230 235 240

Leu Cys Leu Ile Phe Leu Leu Val Leu Leu Asp Tyr Gln Gly Met Leu
 245 250 255

Pro Val Cys Pro Leu Leu Pro Gly Thr Ser Thr Thr Ser Thr Gly Pro
 260 265 270

Cys Lys Thr Cys Thr Ile Pro Ala Arg Gly Thr Ser Met Phe Pro Ser
 275 280 285

Cys Cys Cys Thr Lys Pro Ser Asp Gly Asn Cys Thr Cys Ile Pro Ile
 290 295 300

Pro Ser Ser Trp Ala Phe Ala Arg Phe Leu Trp Glu Trp Ala Ser Val
 305 310 315 320

Arg Phe Ser Trp Leu Ser Leu Leu Val Pro Phe Val Gln Trp Phe Val
 325 330 335

Gly Leu Ser Pro Thr Val Trp Leu Ser Val Ile Trp Met Met Trp Tyr
 340 345 350

Trp Gly Pro Ser Leu Tyr Asn Ile Leu Ser Pro Phe Leu Pro Leu Leu
 355 360 365

Pro Ile Phe Phe Cys Leu Trp Val Tyr Ile
370 375

<210> 35

<211> 1134

<212> DNA

<213> artificial sequence

<220>

<223> 21-153 (G145R) + ZZ (serotype y) sequence

<400> 35

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aatgatgctc aggcgcgcgaa agtagacaac aaattcaaca aagaacaaca aaacgcgttc      300
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<210> 36

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<213> artificial sequence

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<223> Protein corresponding to 21-153 (G145R) + ZZ (serotype y)
sequence

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His Gln Leu Asp Gly Gly Arg Ala Gln His Asp Glu Ala Val Asp Asn
20